



## Chemical functionalization of activated carbon through radical and diradical intermediates

Submitted by Eric LEVILLAIN on Wed, 03/11/2015 - 13:44

Titre	Chemical functionalization of activated carbon through radical and diradical intermediates
Type de publication	Article de revue
Auteur	Lebègue, Estelle [1], Brousse, Thierry [2], Gaubicher, Joël [3], Cougnon, Charles [4]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2013
Langue	Anglais
Date	Jan-09-2013
Pagination	14-17
Volume	34
Titre de la revue	Electrochemistry Communications
ISSN	1388-2481
Mots-clés	Activated carbon [5], Benzyne [6], Capacitors [7], Diazonium salts [8], electrochemistry [9], Grafting [10]
Résumé en anglais	Small redox molecules were grafted on carbon through radical and diradical procedures. The reactive intermediates were derived from the 3,4-dimethoxybenzenediazonium salt and the 4,5-dimethoxybenzenediazonium-2-carboxylate salt prepared and decomposed in situ, yielding the dimethoxybenzene radical and the analogous diradical benzyne, respectively. In both cases, the activated carbon Norit serves as trapping agent and the dimethoxybenzene-carbon composites obtained were compared by thermal gravimetric analysis, X-ray photoelectron spectroscopy and cyclic voltammetry. After oxidative ether cleavage of dimethoxybenzene molecules attached to the surface, the resultant catechol-modified carbon electrodes served as pseudo-capacitive materials in aqueous electrochemical capacitors.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua8762">http://okina.univ-angers.fr/publications/ua8762</a> [11]
DOI	10.1016/j.elecom.2013.05.014 [12]
Lien vers le document	<a href="http://dx.doi.org/10.1016/j.elecom.2013.05.014">http://dx.doi.org/10.1016/j.elecom.2013.05.014</a> [12]
Titre abrégé	Electrochemistry Communications

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### Liens

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- [12] <http://dx.doi.org/10.1016/j.elecom.2013.05.014>

Publié sur *Okina* (<http://okina.univ-angers.fr>)